

CAMBRIDGE

JOURNALS

Nutrition Research Reviews

Published on behalf of The Nutrition Society

Editor-in-Chief

Graham C. Burdge, University of Southampton, UK

Nutrition Research Reviews offers a comprehensive overview of nutritional science today. By distilling the latest research and linking it to established practice, the journal consistently delivers the widest range of in-depth articles in the field of nutritional science and has done so for the past twenty-one years. It presents up-to-date, concise and critical reviews of key topics in nutrition science, advancing new concepts and hypotheses that encourage the exchange of fundamental ideas on nutritional well-being in both humans and animals.

Submit your article online
nrr.msubmit.net

Register for free content alerts
journals.cambridge.org/nrr-alerts



Impact Factor
4.842

Ranked **4/72**
Nutrition and Dietics

2011 Journal Citation Reports®

To subscribe contact
Customer Services

Cambridge:
Phone +44 (0)1223 326070
Fax +44 (0)1223 325150
journals@cambridge.org

New York:
Phone +1 (845) 353 7500
Fax +1 (845) 353 4141
subscriptions_newyork@cambridge.org



CAMBRIDGE
UNIVERSITY PRESS

Directions to Contributors can be found at journals.cambridge.org/bjn

British Journal of Nutrition
Volume 114, 2015 ISSN: 0007-1145

**Publishing, Production, Marketing, and
Subscription Sales Office:**

Cambridge University Press,
Journals Fulfillment Department,
UPH, Shaftesbury Road,
Cambridge CB2 8BS, UK

For Customers in North America:

Cambridge University Press
Journals Fulfillment Department
100 Brook Hill Drive
West Nyack
New York 10994-2133
USA

Publisher: Katy Christomanou

Special sales and supplements:

This Journal accepts relevant advertisements and inserts. We also provide bulk reprints of suitable papers to meet teaching or promotional requirements. The journal also publishes supplements on behalf of academic and corporate collaborators. Please contact Sarah Maddox at the Cambridge address for further details. E-mail: special_sales@cambridge.org

Subscription information:

British Journal of Nutrition is an international journal published by Cambridge University Press on behalf of The Nutrition Society. The twelve issues starting January 2015 comprise Volume 113, the twelve issues starting July 2015 comprise Volume 114.

Annual subscription rates:

Volumes 113/114 (24 issues):
Internet/print package £1575/\$3071/€2523
Internet only: £1094/\$2134/€1748

Any **supplements** to this journal published in the course of the annual volume are normally supplied to subscribers at no extra charge.

Back volumes are available. Please contact Cambridge University Press for further information.

Claims for non-receipt of journal issues will be considered on their merit and only if the claim is received within six months of publication. Replacement copies supplied after this date will be chargeable.

US POSTMASTERS: please send address corrections to *British Journal of Nutrition*, Cambridge University Press, 100 Brook Hill Drive, West Nyack, New York 10994-2133.

Directions to Contributors are available from the Society at the address below or can be found on the Society's website at <http://www.nutritionociety.org>.

Offprints: The author (or main author) of an accepted paper will receive a copy of the PDF file of their article. There will be an option to purchase paper offprints, these should be ordered at proof stage. No page charges are levied by this journal.

Copyright: As of 1 July 2000 the copyright of all articles submitted to *British Journal of Nutrition* are retained by the authors or their institutions. For articles prior to this date permission for reproduction of any part of the journal (text, figures, tables or other matter) in any form (on paper, microfiche or electronically) should be sought directly from the Society, at: The Publications Office, The Nutrition Society, 10 Cambridge Court, 210 Shepherds Bush Road, Hammersmith, London W6 7NJ, UK.

Disclaimer: The information contained herein, including any expression of opinion and any projection or forecast, has been obtained from or is based upon sources believed by us to be reliable, but is not guaranteed as to accuracy or completeness. The information is supplied without obligation and on the understanding that any person who acts upon it or otherwise changes his/her position in reliance thereon does so entirely at his/her own risk. Neither the Society nor Cambridge University Press accepts responsibility for any trade advertisement included in this publication.

This journal is printed on acid-free paper from renewable sources. Printed in the UK by Bell & Bain Ltd., Glasgow.

This journal issue has been printed on FSC-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

British Journal of Nutrition is covered in Current Contents®/Agriculture, Biology & Environmental Sciences, SciSearch®, Research Alert®, Current Contents®/Life Sciences, Index Medicus® (MEDLINE®), AGRICOLA®, CAB Abstracts™, Global Health, BIOSIS® Database, EMBASE/Excerpta Medica and Elsevier BIOBASE/Current Awareness in Biological Sciences, CINAHL, and Chemical Abstracts Service.

Review Article

The role of dietary coconut for the prevention and treatment of Alzheimer's disease: potential mechanisms of action.
W. M. A. D. B. Fernando, I. J. Martins, K. G. Goozee, C. S. Brennan, V. Jayasena & R. N. Martins 1–14

Molecular Nutrition

Favourable effects of grape seed extract on intestinal epithelial differentiation and barrier function in IL10-deficient mice.
G. Yang, Y. Xue, H. Zhang, M. Du & M.-J. Zhu 15–23

Metabolism and Metabolic Studies

Dietary ratio of animal:plant protein is associated with 24-h urinary iodine excretion in healthy school children.
G. Montenegro-Bethancourt, S. A. Johnner, P. Stehle & T. Remer 24–33

Nutritional Endocrinology

Resistant maltodextrin promotes fasting glucagon-like peptide-1 secretion and production together with glucose tolerance in rats.
T. Hira, A. Ikee, Y. Kishimoto, S. Kanahori & H. Hara 34–42

Nutritional Immunology

Influence of fish oil supplementation and strength training on some functional aspects of immune cells in healthy elderly women.
C. de Lourdes Nahhas Rodacki, A. L. F. Rodacki, I. Coelho, D. Pequito, M. Krause, S. Bonatto, K. Naliwaiko & L. C. Fernandes 43–52

Postnatal nutritional restriction affects growth and immune function of piglets with intra-uterine growth restriction.
L. Hu, Y. Liu, C. Yan, X. Peng, Q. Xu, Y. Xuan, F. Han, G. Tian, Z. Fang, Y. Lin, S. Xu, K. Zhang, D. Chen, D. Wu & L. Che 53–62

Microbiology

Lipid hydrolysis products affect the composition of infant gut microbial communities *in vitro*.
R. G. Nejrup, M. I. Bahl, L. K. Vignæs, C. Heerup, T. R. Licht & L. I. Høllgren 63–74

Human and Clinical Nutrition

Secoiridoids delivered as olive leaf extract induce acute improvements in human vascular function and reduction of an inflammatory cytokine: a randomised, double-blind, placebo-controlled, cross-over trial.
S. Lockyer, G. Corona, P. Yaqoob, J. P. E. Spencer & I. Rowland 75–83

Awareness of folic acid use increases its consumption, and reduces the risk of spina bifida.
A. Kondo, N. Morota, H. Date, K. Yoshifuji, T. Morishima, M. Miyazato, R. Shirane, H. Sakai, K. H. Pooh & T. Watanabe 84–90

Urinary enterolactone associated with liver enzyme levels in US adults: National Health and Nutrition Examination Survey (NHANES).
C. Xu, Q. Liu, Q. Zhang, Z.-Y. Jiang & A. Gu 91–97

Carbohydrate-rich breakfast attenuates glycaemic, insulinaemic and ghrelin response to *ad libitum* lunch relative to morning fasting in lean adults.
E. A. Chowdhury, J. D. Richardson, K. Tsintzas, D. Thompson & J. A. Betts 98–107

Dietary Surveys and Nutritional Epidemiology

Iodine and pregnancy – a UK cross-sectional survey of dietary intake, knowledge and awareness.
E. Combet, M. Bouga, B. Pan, M. E. J. Lean & C. O. Christopher 108–117

The influence of birth order and number of siblings on adolescent body composition: evidence from a Brazilian birth cohort study.
F. de Oliveira Meller, M. C. F. Assunção, A. A. Schäfer, C. L. de Mola, A. J. D. Barros, D. L. Dahly & F. C. Barros 118–125

Iodised salt contribution to iodine nutrition status of pregnant and lactating women.
H. Zhang, S. Lv, Z. Mu, W. Li, X. Zhang, Y. Wang & S. Rutherford 126–133

Adherence to cancer prevention recommendations and antioxidant and inflammatory status in premenopausal women.
Y. Morimoto, F. Beckford, R. V. Cooney, A. A. Franke & G. Maskarinec 134–143

Determinants of serum 25-hydroxyvitamin D in Hong Kong.
C. Xu, R. A. P. M. Perera, Y.-H. Chan, V. J. Fang, S. Ng, D. K. M. Ip, A. May-Sin Kam, G. M. Leung, J. S. Malik Peiris & B. J. Cowling 144–151

Inflammatory potential of diet and risk of colorectal cancer: a case-control study from Italy.
N. Shivappa, A. Zucchetto, M. Montella, D. Serraino, S. E. Steck, C. La Vecchia & J. R. Hébert 152–158

Corrigendum

Potent anti-obesity effect of enteric-coated lactoferrin: decrease in visceral fat accumulation in Japanese men and women with abdominal obesity after 8-week administration of enteric-coated lactoferrin tablets – CORRIGENDUM.
T. Ono, M. Murakoshi, N. Suzuki, N. Iida, M. Ohdera, M. Iigo, T. Yoshida, K. Sugiyama & H. Nishino 159

Cambridge Journals Online For further information about this journal please go to the journal website at: journals.cambridge.org/bjn